



**Issue
No.35**

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**NATIONAL LOCKSMITH
AUTOMOBILE ASSOCIATION™**

06.02

2002 Mercury Mountaineer

by Tom Seroogy & Randy Mize



1. A cousin to Ford's Explorer, the 2002 Mercury Mountaineer is pretty typical for the new generation Ford/Lincoln/Mercury SUVs. With locks absent on the tailgate and passenger door, the locksmith is left servicing only the door and ignition lock.

Opening:



2. Opening the 2002 Mountaineer is easy and straight forward. Simply wedge the door open directly above the door handle and insert a long, right angle slide tool.

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www.TheNationalLocksmith.com

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www.Laserkey.com

Product & Technology Sales,
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3. Grasp the interior lock rod and slide to unlock the door.

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Ignition Lock:



4. The 2002 Mountaineer is using the new knobless ignition, introduced in late 2001, and the 599179 E-PATS key introduced on the 2000 Sable.

5. Originally, this ignition lock was introduced as the STRATTEC 706229 and included a sidebar. In September/October 2002, this designed was changed to a non-sidebar version of the same lock, STRATTEC 707592.



6. Removing this lock is a little more difficult than the locks used in previous year models. Gone is an access hole in the lower shroud, allowing access to the lock's retainer button. As such, it is necessary to first remove the lower shroud on this column to gain access to the lock's retainer. Use a standard Phillips head screwdriver to remove the lower shroud's mounting screws.



7. Remove the lower shroud and move aside the large rubber grommet or bezel surrounding the lock and the shift lever.

8. With the shroud removed, the transceiver ring and accompanying harness assembly are fully visible. Not visible, however, is the lock's retaining button. Again, unlike previous years, the retainer is hidden beneath the transceiver unit, which must be removed before gaining access to the lock retainer.



9. Begin removing the transceiver ring by first removing the three bolts that hold the wiring harness to the column.



10. Three bolts hold this harness in place. Be careful to locate and remove all of the bolts holding the harness assembly to the column.



11. Remove the final bolt holding the harness to the column.



12. Using a small screwdriver, gently depress the locking tab of the transceiver connector.

13. Separate the connector.



14. With the connector separated, locate and remove the one bolt fastening the transceiver ring to the column.



15. Finally, remove the transceiver ring from around the lock housing and lock.



16. With the transceiver ring removed, the lock's retainer can be depressed for lock removal. Insert a key, drill or pick the lock to the ON or RUN position and depress the retainer.



17. Remove the lock from the lock housing. With the lock removed it becomes evident that the lock's retainer is made of nothing more than plastic and can be depressed at any time.

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18. During removal, some caution must be taken as the retainer can easily become damaged.

19. Needless to say, this retainer is simply a secondary retainer, holding the lock in place when the key is in the ON and START positions. To secure the lock in the housing, the snap ring at the back of the lock keys into the lock housing when the lock is in the OFF position.



Door Lock:

20. The door lock of the Mountaineer appears to part of the handle. However, handle removal is not required for removing and servicing the lock.



21. Begin door lock removal by first tearing down the door panel.

22. Three screws can be found along the bottom of the panel. Use a small socket to remove the screws.





23. Using a trim and panel tool to separate the trim.



24. Gently pry the handle trim from the door.

25. Next, grasp the top of the window switch panel on the armrest and lift.



26. Be careful to release the small retaining tab that holds the panel in place.



27. Turn the panel upside down to view the various connectors.

28. Disconnect the connectors and set the panel aside.



29. With the panel removed, a small bolt is visible. Use a socket to remove the bolt.

30. The door panel is now ready for removing. Grasp the panel and lift straight up.



31. Large hooks on the panel hold it to the door. To avoid permanently damaging the panel, DO NOT try to pry the panel off of the door.

32. Once the panel has been separated from the door, disconnect the various connectors attached to the trim panel.



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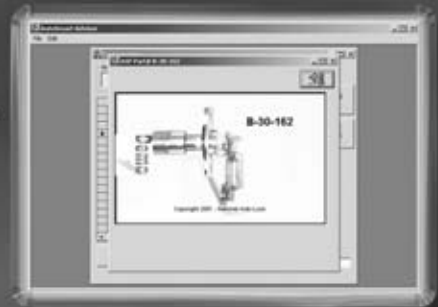
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Step 2



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Step 3



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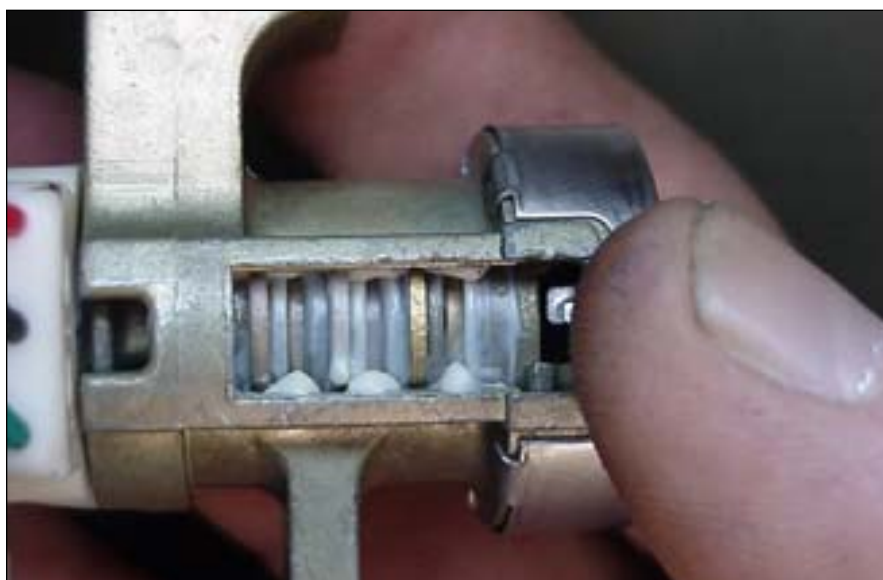
33. A vapor or environment barrier covers the inside of the door. To give us open access to the lock, carefully peel back the edge of the barrier, making sure not to rip or tear it.

34. To complete lock removal, use a 12mm socket to remove the nut holding the lock in place.



35. The lock is now free to be removed.

36. Slide the lock up and off of the lock rod to finish lock removal.



37. Viewing the lock from the bottom, all the lock's tumblers can be seen.

38. As stated earlier, the lock is not actually a part of the handle. Instead the lock is used to hold the handle to the outside of the door.



Programming:

The 2002 Mountaineer is using the PATS II programming procedures for duplicating and programming new keys. When programming use the PCM module or protocol.

Car Specs:

Key Blanks:

STRATTEC: 599179

Locks:

Ignition: STRATTEC - 707592

Door: STRATTEC - 706231

Service Kits:

STRATTEC: 703373

BWD: SK5011

Code Specifications:

Code Series: 0001X-1706X

HPC:

Code Card - CX101

Cutter: CW1011

Stop -

A-1:

Pack-A-Punch: Kit: PAK-F3

Punch: 90T

Curtis:

Cam: FORD-5

Carriage: FORD-5

Framon:

First Cut: .405

Space Block: #3

Stop: Place spacing clip on left side of vise and slide key in from right.

Spacing & Depth

No.	Space	Framon Spacin	Depth
1.	.845	.405	.354
2.	.753	.497	.329
3.	.661	.589	.304
4.	.569	.681	.279
5.	.477	.774	.254
6.	.385	.866	
7.	.293	.958	
8.	.201	1.060	

Tumbler Positions

Position	1	2	3	4	5	6	7	8
Ignition		X	X	X	X	X	X	X
Door	X	X	X	X	X	X		

For more information on servicing the Mercury Mountaineer, STRATTEC service parts or transponder equipment and supplies, contact Tom Seroogy or Randy Mize at Lockmasters Inc., (800) 654-0637 x342.

